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*System and Method for Acquiring and Processing  
Complex Images*

Inventors: X. Long Dai, et al.  
Serial No. 10/661,187; Filing Date: 09/12/2003  
Attorney Docket 068062.0166  
Replacement Sheet 1 of 14

**FIG. 1**

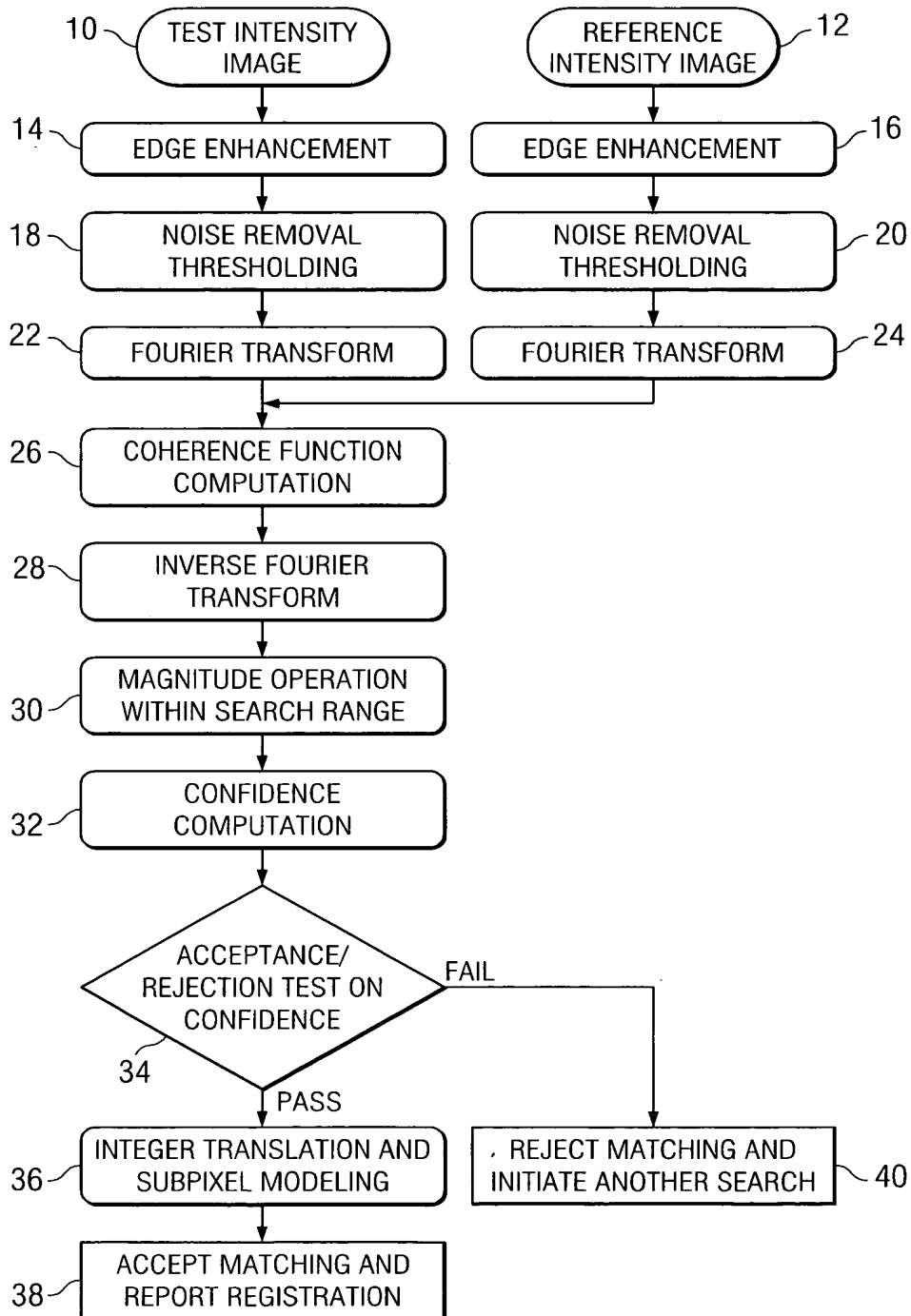
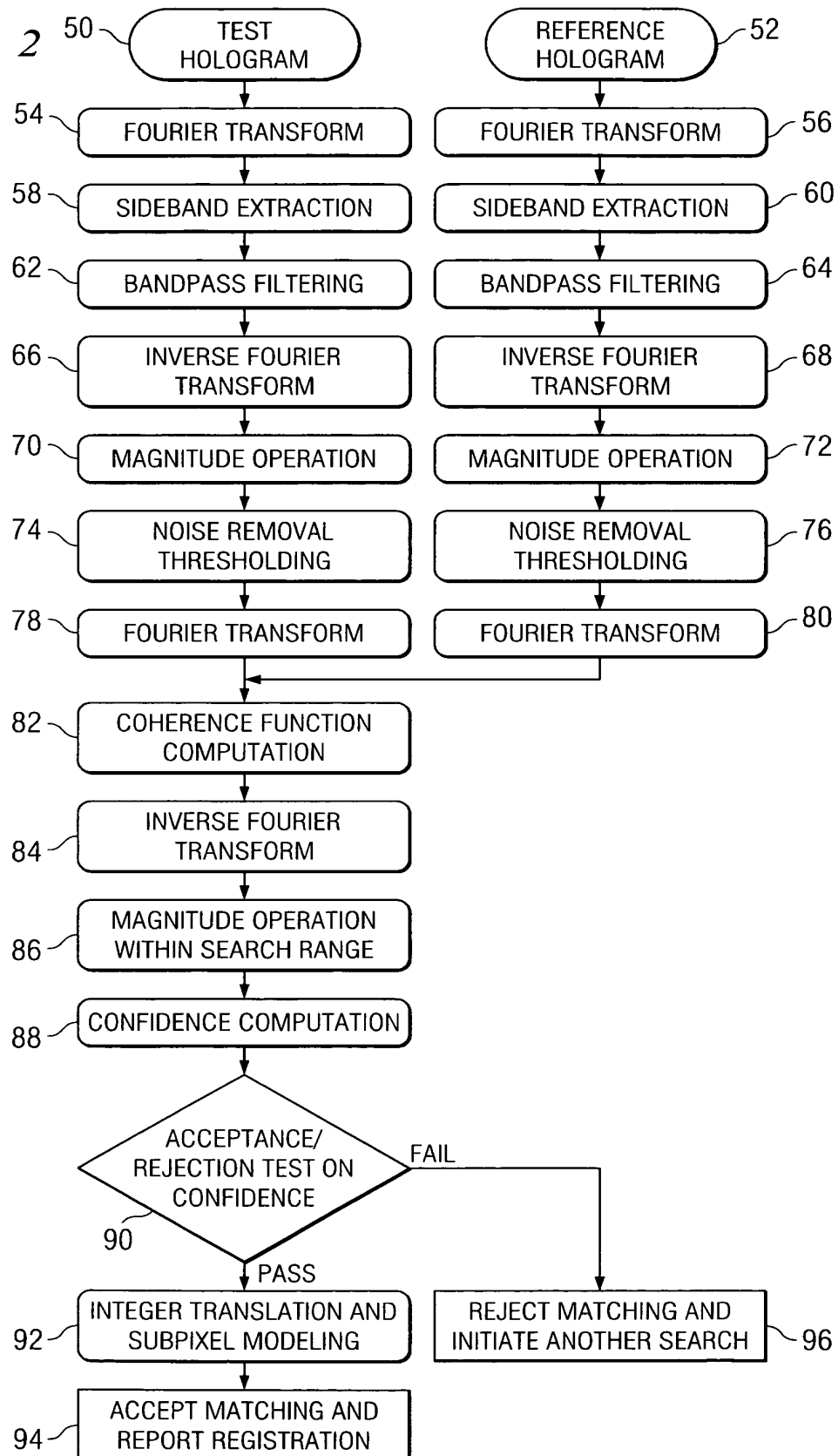
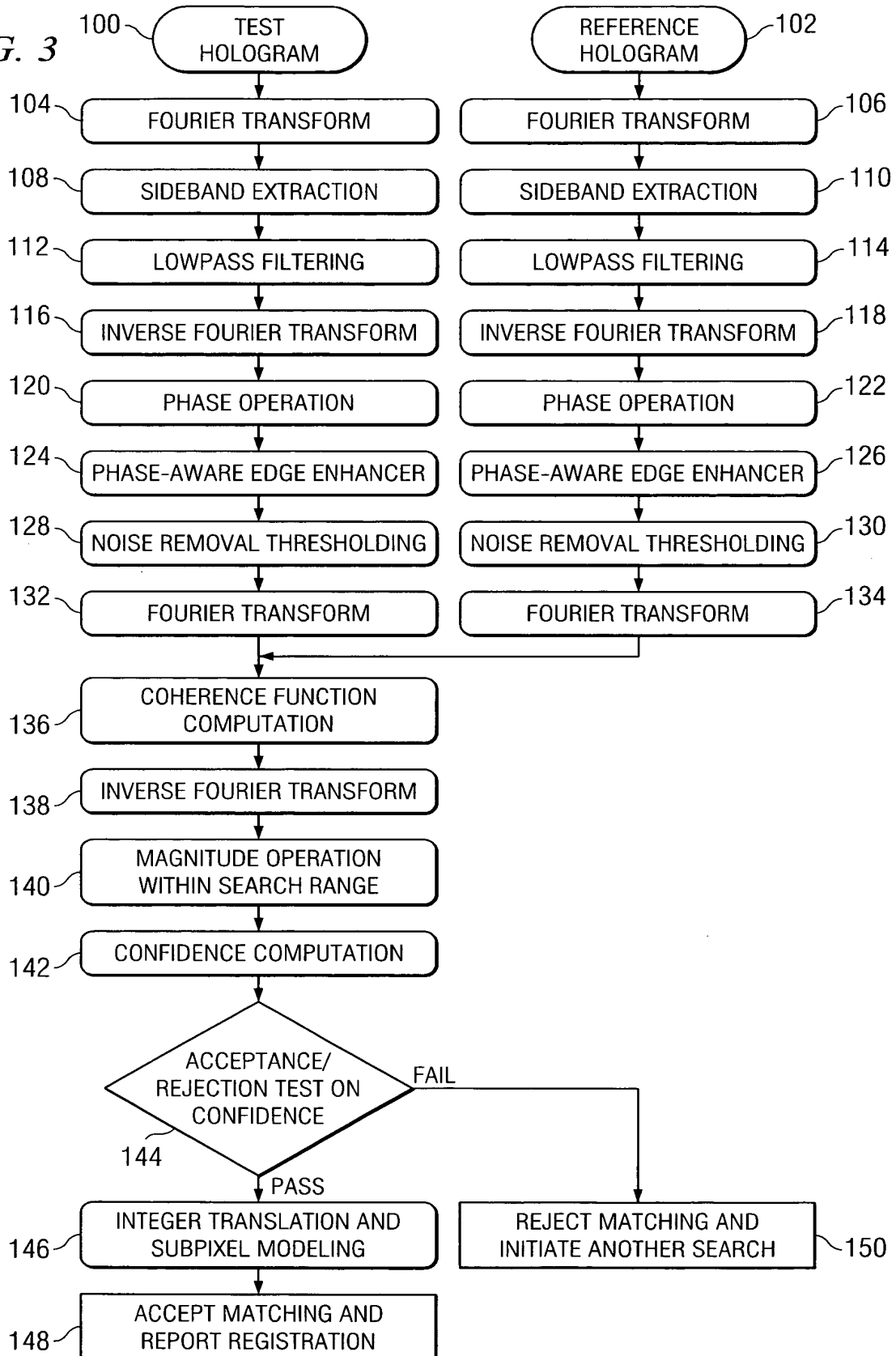


FIG. 2



**FIG. 3**



**FIG. 4**

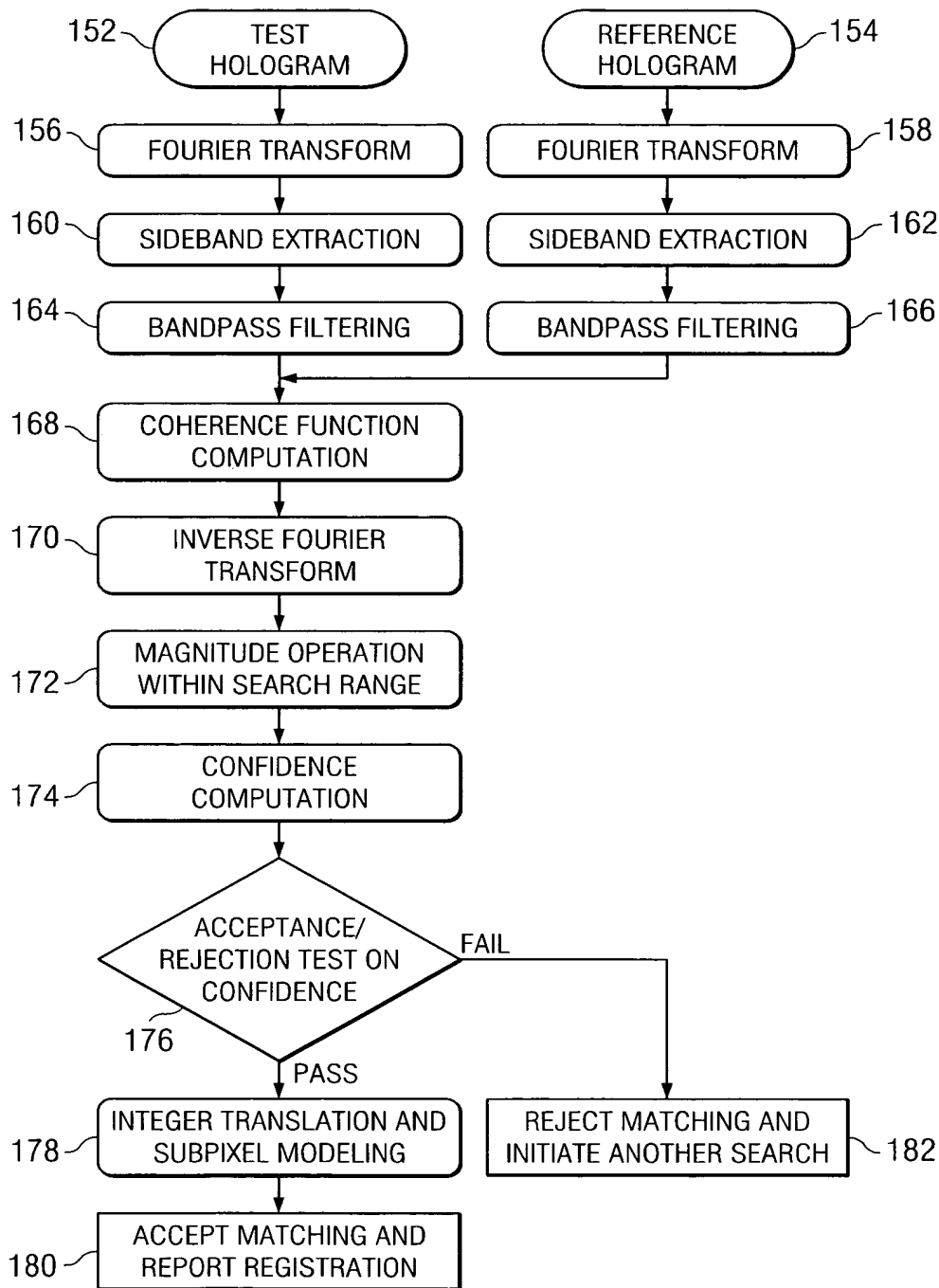


FIG. 5

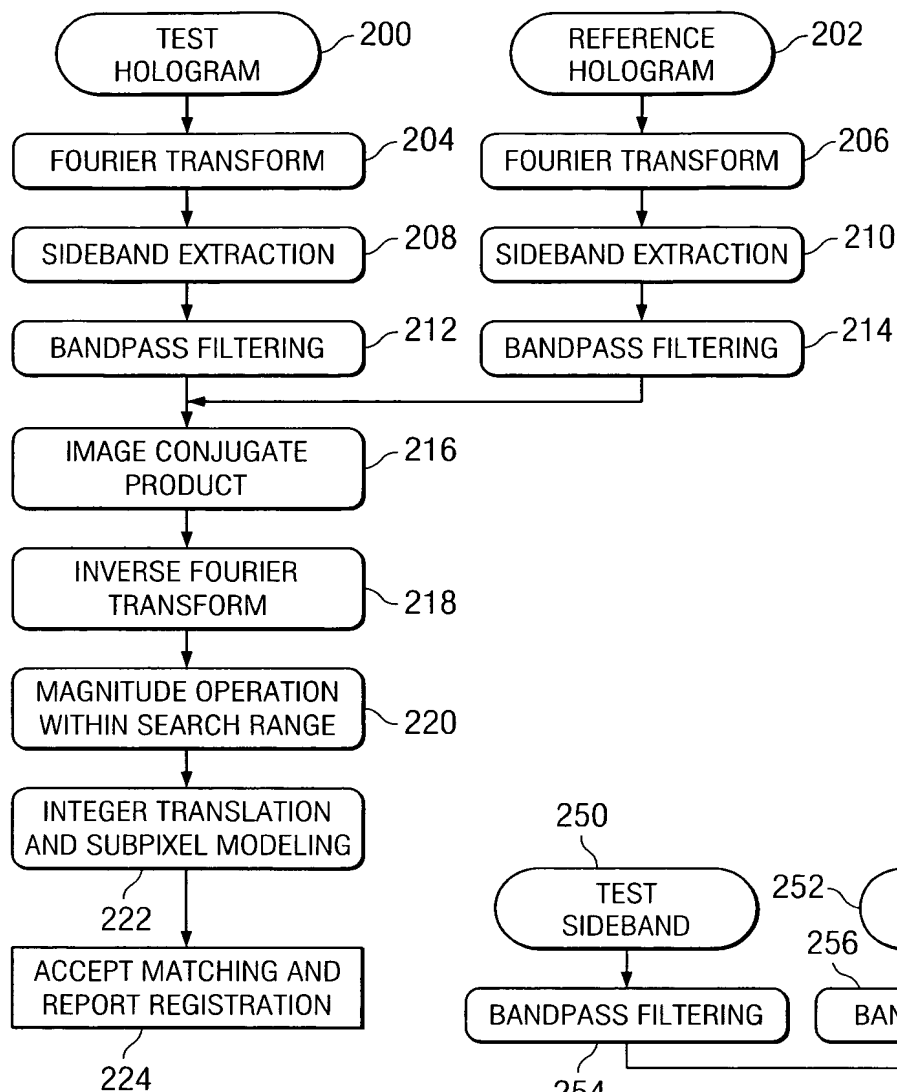
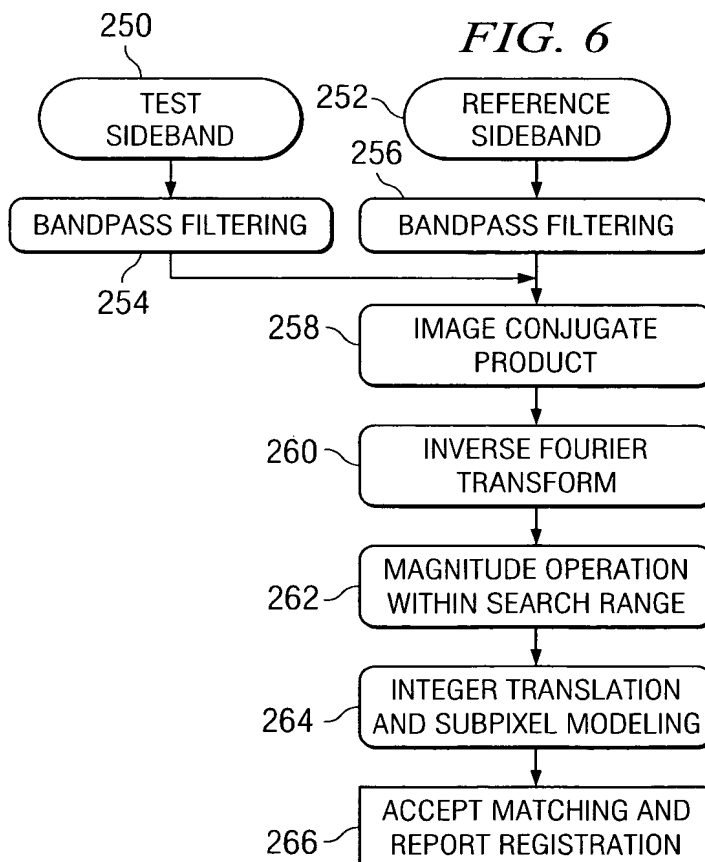


FIG. 6



[illegible]

**FIG. 8**

340

350 SYSTEM CONTROL

360 ACQUISITION/PROCESSING

370 OPTICS ILLUMINATION

380 POSITIONING SYSTEM

```

graph TD
    350[SYSTEM CONTROL] <--> 360[ACQUISITION/PROCESSING]
    360 --> 370[OPTICS ILLUMINATION]
    370 --> 350
    350 --> 380[POSITIONING SYSTEM]
    380 --> 350
  
```

Detailed description: This block diagram, labeled FIG. 8, illustrates a system 340. The system consists of four main functional blocks: a SYSTEM CONTROL block (350), an ACQUISITION/PROCESSING block (360), an OPTICS ILLUMINATION block (370), and a POSITIONING SYSTEM block (380). The SYSTEM CONTROL block (350) and the ACQUISITION/PROCESSING block (360) are connected by a bidirectional horizontal arrow, indicating mutual communication. A vertical arrow points from the ACQUISITION/PROCESSING block (360) down to the OPTICS ILLUMINATION block (370). Another vertical arrow points from the OPTICS ILLUMINATION block (370) up to the SYSTEM CONTROL block (350). A third vertical arrow points from the SYSTEM CONTROL block (350) down to the POSITIONING SYSTEM block (380). Finally, a fourth vertical arrow points from the POSITIONING SYSTEM block (380) up to the SYSTEM CONTROL block (350).

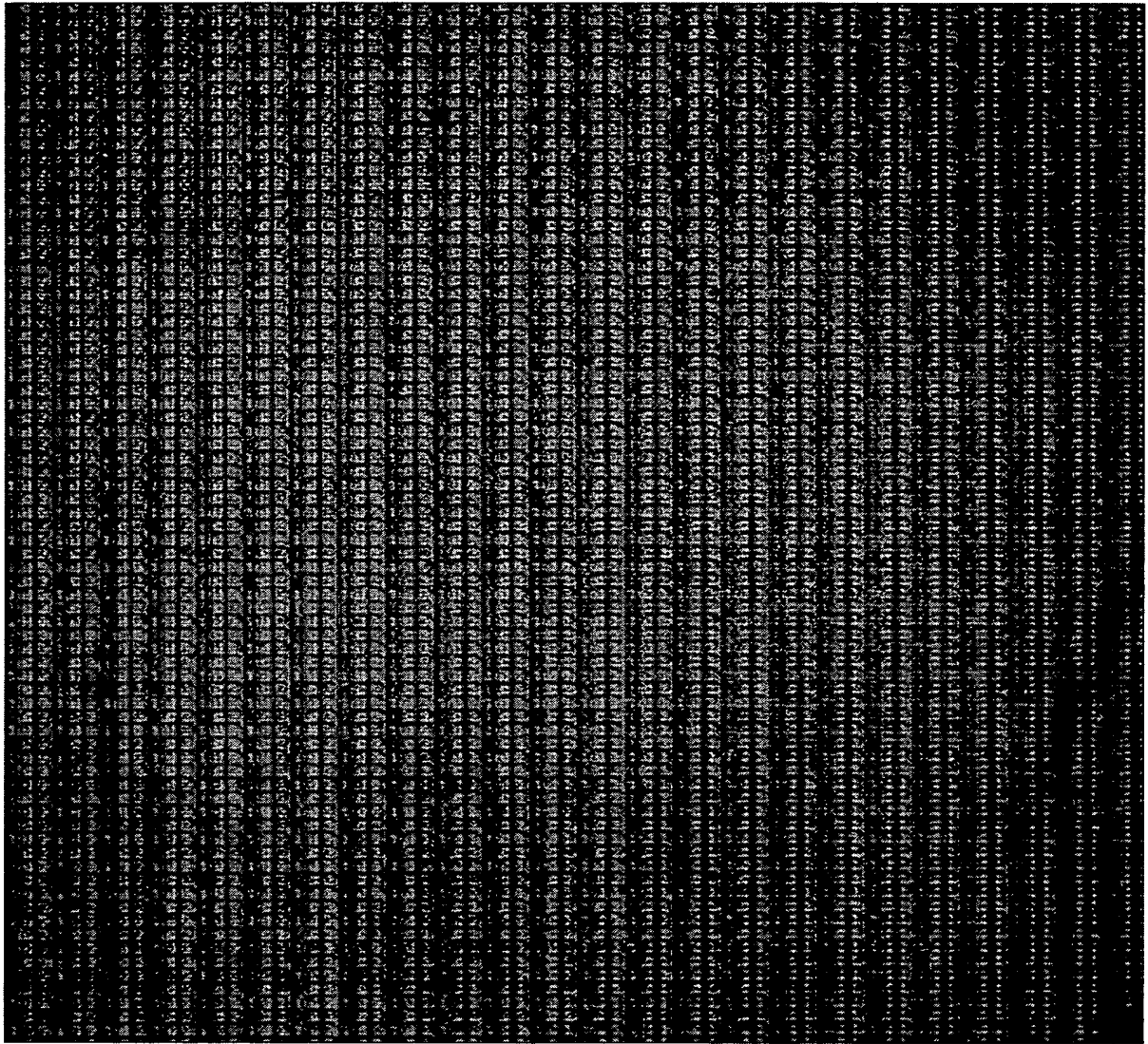
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*FIG. 9*

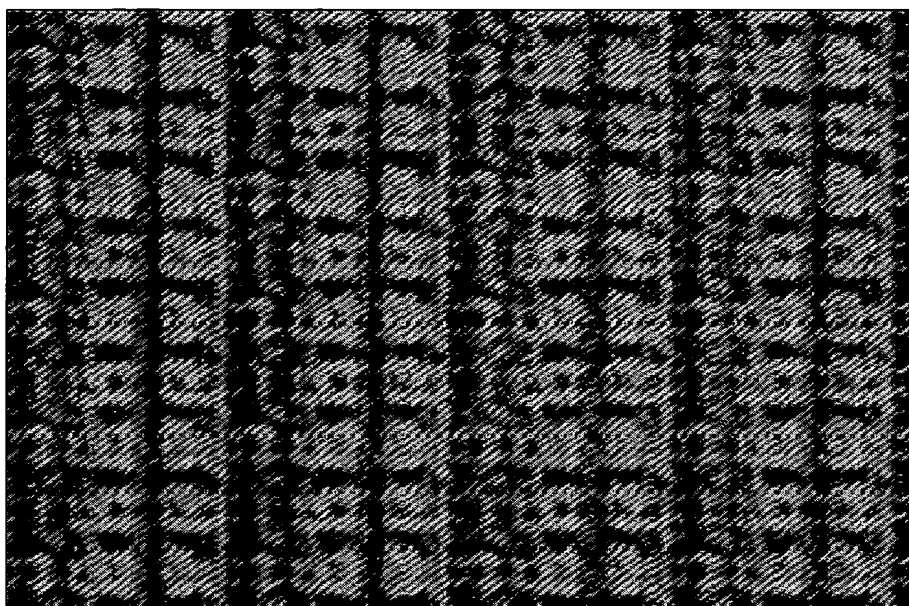
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*FIG. 10*

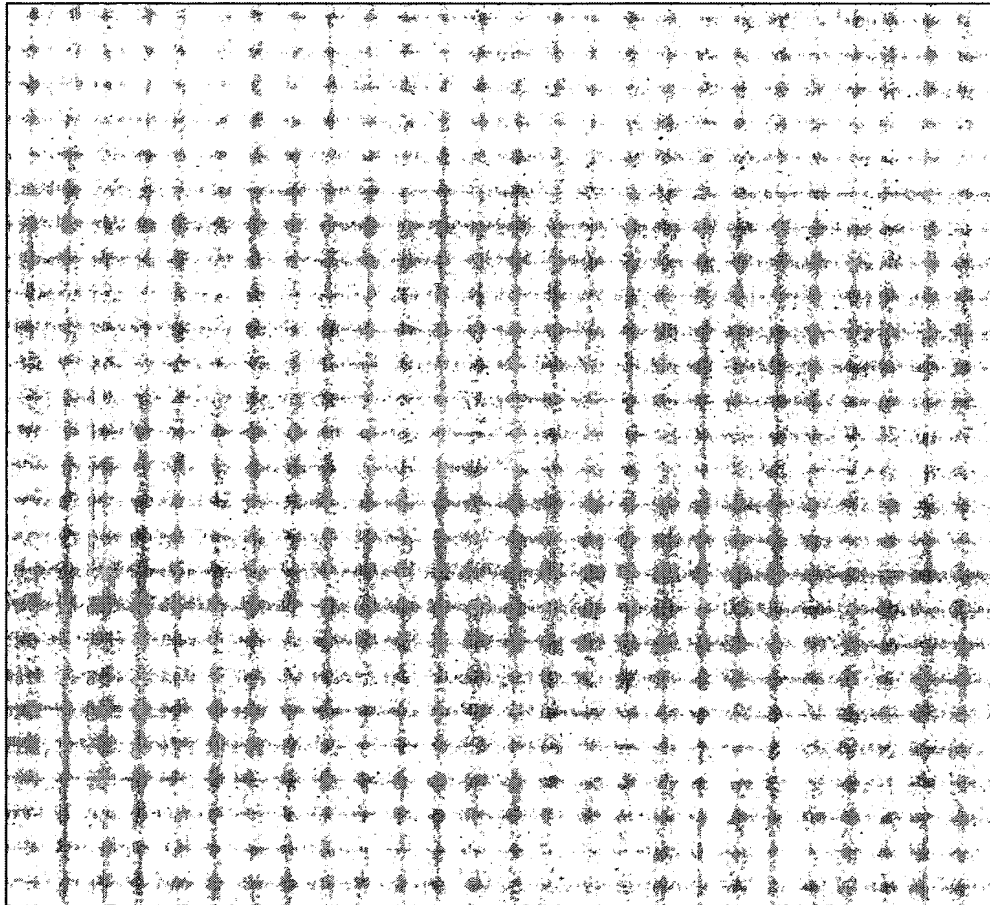
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*FIG. 11*

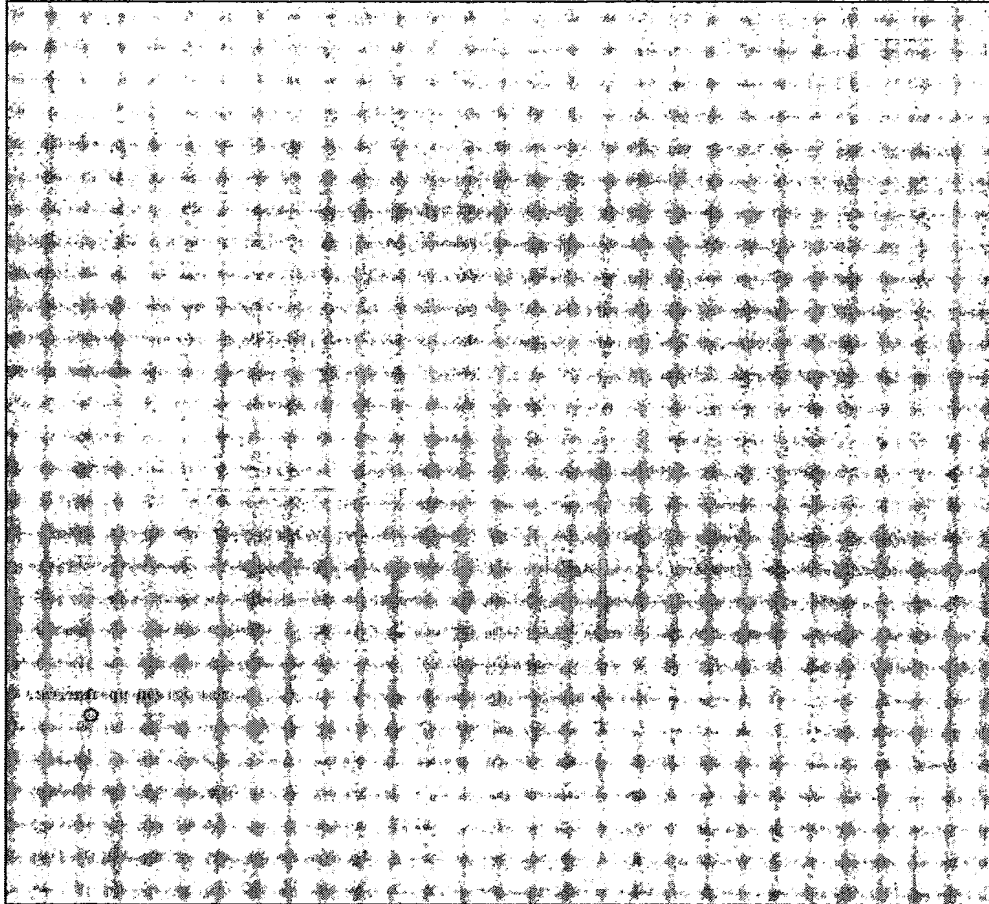
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*FIG. 12*

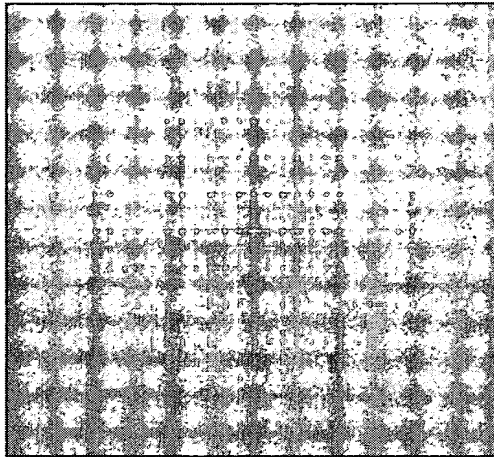
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Complex Images*

Inventors: X. Long Dai, et al.

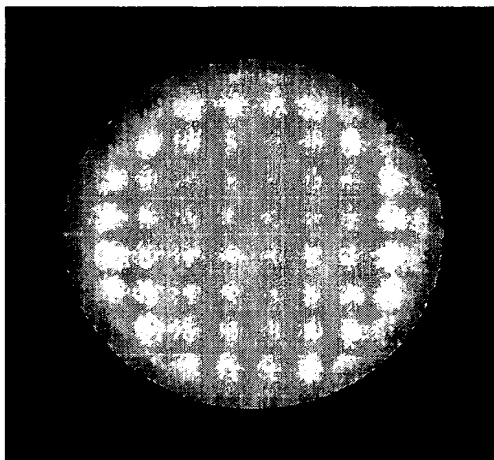
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*FIG. 13*



*FIG. 14*

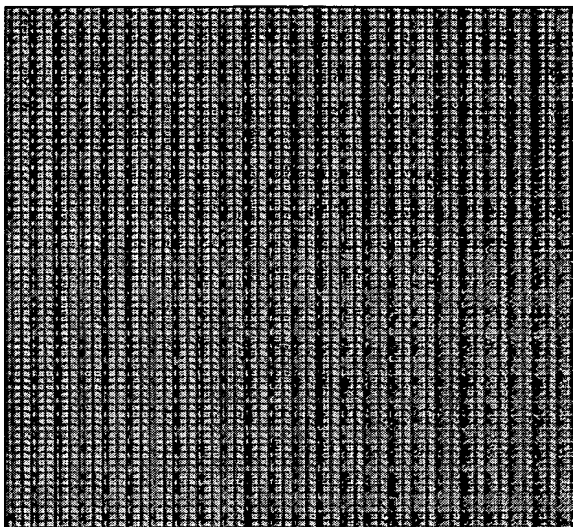
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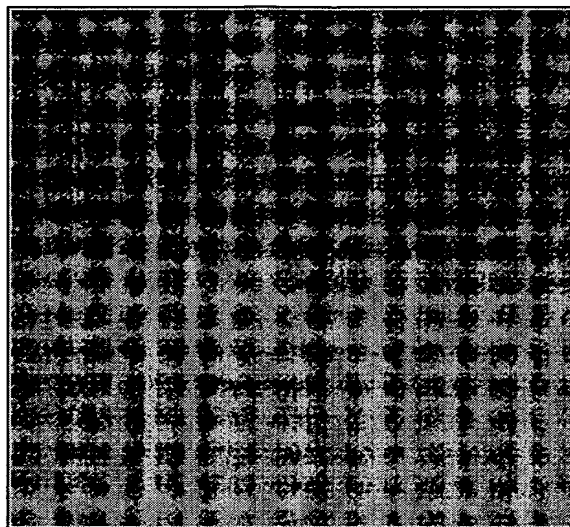
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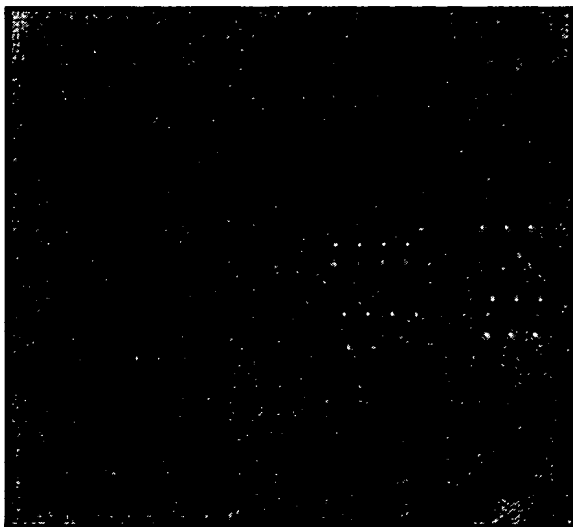
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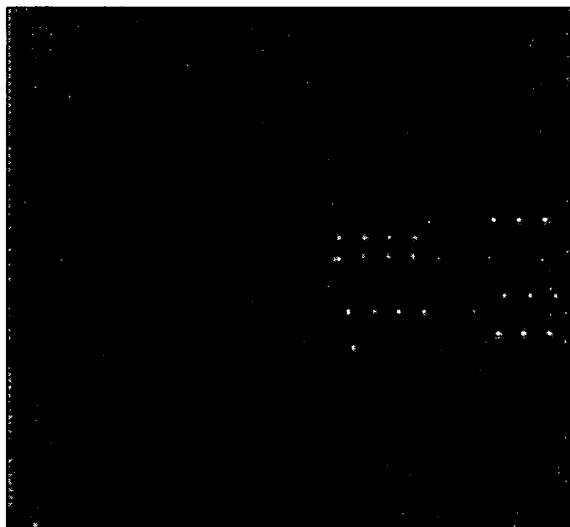
*FIG. 15*



*FIG. 16*



*FIG. 17*



*FIG. 18*

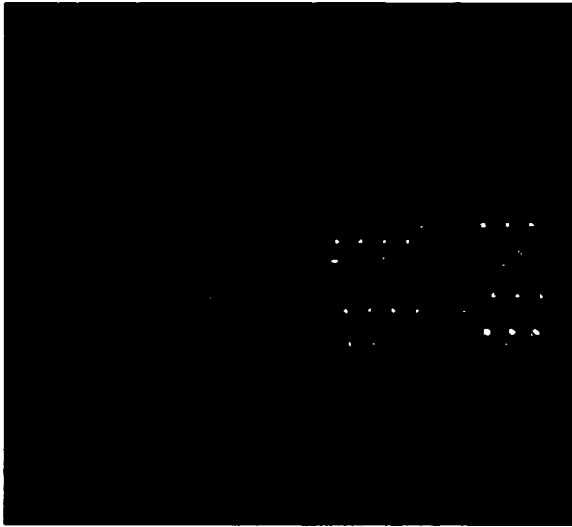
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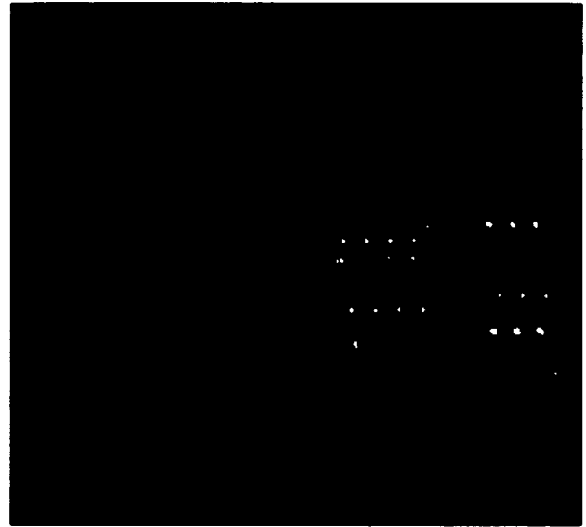
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*FIG. 19*



*FIG. 20*



*FIG. 21*

*System and Method for Acquiring and Processing  
Complex Images*

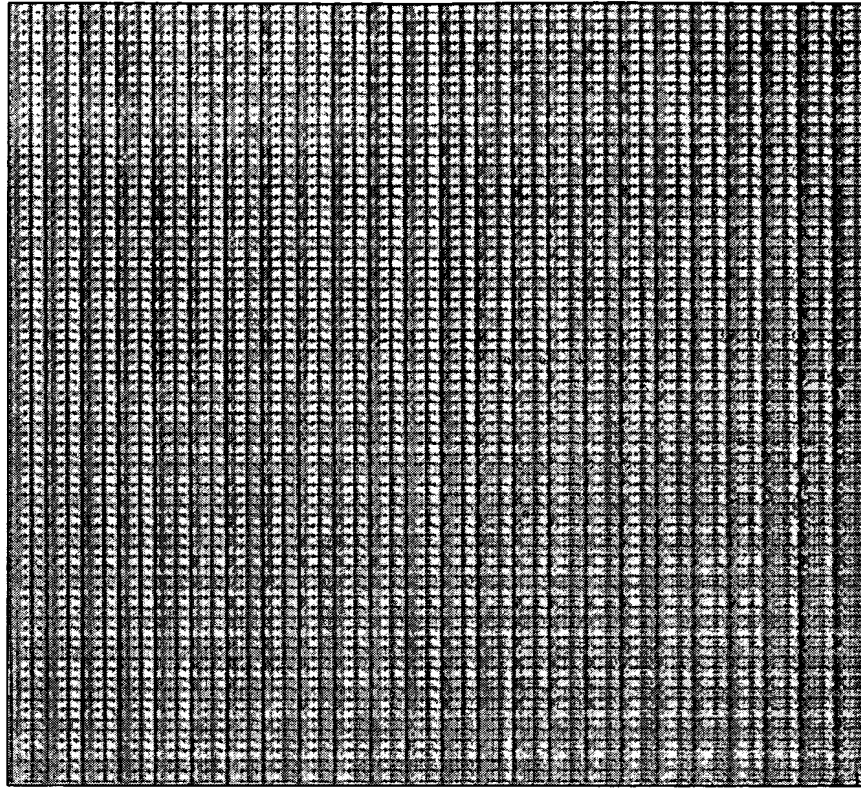
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*FIG. 22*



*FIG. 23*

